

UNITED STATES DEPARTMENT OF COMMERCE **Patent and Trademark Office**

COMMISSIONER OF PATENTS AND TRADEMARKS Address:

Washington, D.C. 20231

		A7E8 O 1	wasning	jton, D.C. 202	231	ℓ رم		
APPLICATION NO.	FILING DATE	LING DATE FIRST NAMED IN		IVENTOR		ATTORNEY DOCKET NO.		
09/500,735	02/09/00	SHIPMAN		М	685-	P-2-USA		
Γ .			コ		EXA	MINER		
		MMC2/0102						
Drummond & Du	ckworth			HORDE	M_D			
4590 MacArthur Boulevard Suite 500			ART	UNIT	PAPER NUMBER			
Newport Beach				2875		al a		
				DATE MA	M ED.			
	•			DAILMA		,		
					01/	02/01		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



DEPARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

MMC2/0102

Drummond & Duckworth 4590 MacArthur Boulevard Suite 500 Newport Beach CA 92660

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	,	DATE MAILED
09/500,735	02/09/00	003	HOBDEN, D	2875	01/02/01
First Named Applicant SHIFMAN.		35 \	USC 154(b) term ext. =	0 Day	

INVENTIONKEYBOARD HAVING ILLUMINATED KEYS

•				<u> </u>		
ATTY'S DOCKET NO.	CLASS-SUBCLASS BATCH	INO. AP	PLN: TYPE SMA	L ENTITY	FEE.DUE	DATE DUE
3 685-P-2-U	6A 362-030.00	0 A1	UTILITY	YE.	\$620.00	04/02/01

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

(DELV 10.06) Annoved for use through 06/30/99. (0651-0033)

	Application No. 09/500,735		Applicant(s)					
			SHIPMAN, MICHAEL					
Notice of Allowability	Examiner		Art Unit					
	David V. Hob	den	2875					
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance and Issue THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PAT initiative of the Office or upon petition by the applicant. See 37 (S (OR REMAINS Fee Due or oth ENT RIGHTS .	c) CLOSED in this apper appropriate commuc) This application is sub	dication. If not includ Inication will be maile	led ed in due course.				
This communication is responsive to communications filed on 11/03/2000.								
2. The allowed claim(s) is/are <u>7-9</u> .	au in an							
 3. ☐ The drawings filed on are acceptable as formal drawings. 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) ☐ All b) ☐ Some* c) ☐ None of the: 								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority d	ocuments have	been received in this i	national stage applic	ation from the				
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:								
Acknowledgement is made of a claim for domestic priority	y under 35 U.S.0	C. & 119(e).						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.								
6. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.								
7. ☑ Applicant MUST submit NEW FORMAL DRAWINGS (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review(PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No								
(b) ☑ including changes required by the proposed drawing correction filed 03 November 2000, which has been approved by the examiner.								
(c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No								
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.								
8. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.								
Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE / SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.								
Attachment(s)		_						
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No. 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		2☐ Notice of Inform 4☑ Interview Summ 6☐ Examiner's Ame 8☑ Examiner's State 9☐ Other	ary (PTO-413), Pape Indment/Comment	er No. <u>5</u> .				

Application/Control Number: 09/500,735

Art Unit: 2875

DETAILED ACTION

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:
 Claims 7-9 are allowed.

Prior art discloses a lighted computer keyboard having:

a keyboard housing;

a plurality of key members constructed of a substantially hard nondeformable material, the key members depressably positioned within the keyboard housing, the plurality of key members also including at least twenty-six key members having letters displayed thereon;

a. an elastic diaphragm underlying the key members for biasing the key members in an upward direction;

Prior art does not disclose:

He allows because of Now

the largers (disphraym, circuit board,

a. a circuit board underlying the plurality of key members and the elastic planar short)

diaphragm, the circuit board being operational to produce signals in response to

in relation

to each

atter

a luminescent planar sheet for producing light, the luminescent planar sheet positioned between the plurality of key members and the elastic diaphragm, and being optically connected to the key members so as to permit the transmission of light to at least some of the plurality of key members, the luminescent planar sheet also including a plurality of holes underlying the key members for permitting the key members to engage the elastic diaphragm.

Application/Control Number: 09/500,735

Art Unit: 2875

b. a substantially translucent elastic diaphragm underlying the key members for biasing the key members in an upward direction;

a circuit board underlying the plurality of key members and the elastic diaphragm, the circuit board being operational to produce signals in response to depression of the key members; and

a luminescent planar sheet for producing light, the luminescent planar sheet underlying the key members and the elastic diaphragm, and being positioned between the elastic diaphragm and the circuit board, the luminescent planar sheet being optically connected to the key members so as to permit the transmission of light to at least some of the plurality of key members.

c. a substantially translucent elastic diaphragm underlying the key members for biasing the key members in an upward direction;

a substantially translucent circuit board underlying the plurality of key members and the elastic diaphragm, the circuit board being operational to produce signals in response to depression of the key members; and

a luminescent planar sheet for producing light, the luminescent planar sheet underlying the key members, the elastic diaphragm, and the circuit board, the luminescent planar sheet being optically connected to the key members so as to permit the transmission of light to at least some of the plurality of key members.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Application/Control Number: 09/500,735

Art Unit: 2875

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Drawings

2. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on 11/03/2000 have been approved by the examiner.

3. The application having been allowed, formal drawings are required in response to this Office Action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David V. Hobden whose telephone number is 703-305-4469. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L O'Shea can be reached on 703-305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-8303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-0956.

DVH

December 21, 2000

Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800

Page 4